

## Recombinant Human FGF23, His-tagged

Cat. No. FGF23-28141TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human FGF 23 fused at the C-terminus to a His tag, 35kDa.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	251 amino acids
<b>Description</b>	<p>The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities and are involved in a variety of biological processes including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. The product of this gene inhibits renal tubular phosphate transport. This gene was identified by its mutations associated with autosomal dominant hypophosphatemic rickets (ADHR), an inherited phosphate wasting disorder. Abnormally high level expression of this gene was found in oncogenic hypophosphatemic osteomalacia (OHO), a phenotypically similar disease caused by abnormal phosphate metabolism. Mutations in this gene have also been shown to cause familial tumoral calcinosis with hyperphosphatemia.</p>
<b>Conjugation</b>	HIS
<b>Molecular Weight</b>	35.000kDa inclusive of tags
<b>Tissue specificity</b>	Expressed in osteogenic cells particularly during phases of active bone remodeling. In adult trabecular bone, expressed in osteocytes and flattened bone-lining cells

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	(inactive osteoblasts).
<b>Biological activity</b>	Activates ERK and FRS2a phosphorylation in Klotho expressing cells.
<b>Form</b>	Liquid
<b>Purity</b>	>90% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: PBS
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Sequence Similarities</b>	Belongs to the heparin-binding growth factors family.

## GENE INFORMATION

<b>Gene Name</b>	FGF23 fibroblast growth factor 23 [ Homo sapiens ]
<b>Official Symbol</b>	FGF23
<b>Synonyms</b>	FGF23; fibroblast growth factor 23;
<b>Gene ID</b>	8074
<b>mRNA Refseq</b>	NM_020638
<b>Protein Refseq</b>	NP_065689
<b>MIM</b>	605380
<b>Uniprot ID</b>	Q9GZV9

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<b>Chromosome Location</b>	12p13
<b>Pathway</b>	Downstream signaling of activated FGFR, organism-specific biosystem; FGF signaling pathway, organism-specific biosystem; FGFR ligand binding and activation, organism-specific biosystem; FGFR1 ligand binding and activation, organism-specific biosystem; FGFR1c and Klotho ligand binding and activation, organism-specific biosystem;
<b>Function</b>	growth factor activity; protein tyrosine kinase activity; type 1 fibroblast growth factor receptor binding;

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